## What is claimed is:

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1. A DC brushless motor structure comprising:

a base comprising a through-hole having a first end and a second end having a first axle hole, a lid being engaged with the first end of the through-hole and having a second axle hole, the base having a wall, at least two sets of windings being mounted to the wall of the base, an IC control means being mounted on the base and electrically connected to said at least two sets of windings; and

a rotor comprising a shaft and a permanent magnet having a north pole and a south pole, the shaft being rotatably received in the second axle hole of the lid and the first axle hole of the base, a repulsive magnetic force is directly created between the permanent magnet and said at least two sets of windings, thereby driving the rotor to turn.

- 2. The DC brushless motor structure as claimed in claim 1, wherein each of the second axle hole of the lid and the first axle hole of the chamber comprises a bearing mounted therein.
- 3. The DC brushless motor structure as claimed in claim 1, wherein the wall of the base has at least two mounting members for mounting said at least two sets of windings.
- 4. The DC brushless motor structure as claimed in claim 3, wherein each of the mounting members is a countersink.
- 5. The DC brushless motor structure as claimed in claim 3, wherein each of the mounting members is an outwardly projecting peg.
- 6. The DC brushless motor structure as claimed in claim 1, further comprising two washers mounted on the shaft of the rotor and respectively located on two ends of the permanent magnet.
- 7. The DC brushless motor structure as claimed in claim 1, wherein the base comprises at least one rib on an outer face of the wall.

- 8. The DC brushless motor structure as claimed in claim 7, further comprising a casing mounted around the outer face of the wall of the base.
- 9. The DC brushless motor structure as claimed in claim 8, wherein the lid is engaged with an end of the casing.
- 10. The DC brushless motor structure as claimed in claim 1, wherein the IC control means comprises a driving circuit and a Hall element.
  - 11. The DC brushless motor structure as claimed in claim 1, wherein the shaft of the rotor has an end extending beyond the lid.
  - 12. The DC brushless motor structure as claimed in claim 11, further comprising an eccentric element coupled to the end of the shaft beyond the lid.
  - 13. The DC brushless motor structure as claimed in claim 11, further comprising a fan wheel coupled to the end of the shaft beyond the lid.
  - 14. A DC brushless motor structure comprising:

a base comprising a through-hole and a wall, at least two sets of windings being mounted to the wall of the base, an IC control means being mounted on the base and electrically connected to said at least two sets of windings; and

a rotor comprising a shaft and a permanent magnet having a north pole and a south pole, the shaft being rotatably received in the throughhole of the base, the permanent magnet surrounding the base, a repulsive magnetic force is directly created between the permanent magnet and said at least two sets of windings, thereby driving the rotor to turn.

15. The DC brushless motor structure as claimed in claim 14, wherein the through-hole of the base has an inner diameter greater than an outer diameter of the shaft of the rotor, the through-hole has a first end and a second end, a support member being mounted in the first end of the through-hole, a lid being engaged with the second end of the through-

hole and having an axle hole through which an end of the shaft extends, the supporting member supporting another end of the shaft.

The DC brushless motor structure as claimed in claim 15, wherein the support member has an arcuate recess for supporting said another end of the shaft.

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- 17. The DC brushless motor structure as claimed in claim 15, wherein the axle hole of the lid has a bearing mounted therein for rotatably holding the shaft.
- 18. The DC brushless motor structure as claimed in claim 14, wherein the wall of the base has at least two mounting members for mounting said at least two sets of windings.
- 19. The DC brushless motor structure as claimed in claim 18, wherein each of the mounting members is a countersink.
- 20. The DC brushless motor structure as claimed in claim 18, wherein each of the mounting members is an outwardly projecting peg.
- 21. The DC brushless motor structure as claimed in claim 14, wherein the IC control means comprises a driving circuit and a Hall element.
- 22. The DC brushless motor structure as claimed in claim 14, wherein the rotor has plural blades mounted thereon.